

IN THE CLAIMS

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Claim 1 (amended). Static mixer module (10), [consisting of] comprising a disc which is provided with a multiplicity of orifices (6) and which is structured on its front side (2) facing the mix and on its rear side (3) by means of ^{inlet} channels (4) and ^{mixing channels} (5) running[, in particular,] in parallel or concentrically, and in which the orifices (6) are made in the flanks (8) of the inlet channels (4) and open into the flanks (9) of the mixing channels (5).

GB 2 360 360
Claim 2 (amended). Static mixer module according to Claim 1, [characterized in that] wherein the inlet channels (4) [and/or], the mixing channels (5), or both, have straight flanks which are at an angle α of 5 degrees to 85 degrees to the disc plane (13) of the front side (2) [and/or], of the rear side (3), or of both.

Claim 3 (amended). Static mixer module according to Claim 1, [characterized in that] wherein the flanks (8) of the inlet channels (4) [and/or], of the flanks (9), or both, of the mixing channels (5) are straight and are at an angle α smaller than 15 degrees to the disc plane (13) of the front side (2) [and/or], of the rear side (3), or of both, and [in that] wherein the mixer module has additional spacer contours[, in particular bosses (15a), teeth (15b) or warts (15c),] on the front side (2) [and/or], the rear side (3), or on both.

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Claim 4 (amended). Static mixer module according to [one of Claims 1 to 3, characterized in that] claim 1, wherein the mid-axis (16) or the wall ^{defining} of the orifices (6) in the flanks of the channels forms an angle β of ± 30 degrees to the flank plane (17).

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Claim 5 (amended). Static mixer module according to [one of Claims 1 to 4, characterized in that] claim 1, wherein the inlet channels (4) [and/or], the mixing channels (5), or both, have a V-shaped, U-shaped, rectangular or trapezoidal cross-sectional profile.

Claim 6 (amended). Static mixer module according to [one of Claims 1 to 5, characterized in that] claim 1, wherein the mixer module is divided into two or more regions or segments which have differently arranged [and/or], differently structured, or both, inlet channels (4) [and/or], mixing channels (5), or both.

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Claim 7 (amended). Static mixer module according to [one of Claims 1 to 6, characterized in that] claim 1, wherein the mixer module is divided into two or more regions or segments which have different spacings between the orifices [and/or], a different cross-sectional ^{openings} ~~surface~~ of the orifices, or both.

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Claim 8 (amended). Static mixer module according to Claim 6 [or 7, characterized in that], wherein the boundaries of the regions or segments are arranged concentrically about the [centre] center point of the mixer module.

Claim 9 (amended). Static mixer module according to [one of Claims 6 to 8, characterized in that] claim 6, wherein the spacing between the planes of the front side and the planes of the rear side of the mixer is different in the various regions or segments.

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Claim 10 (amended). Static mixer module according to [one of Claims 1 to 9, characterized in that] claim 1, wherein the module has, on the front side (2), baffle surfaces (18,19) in the disc plane[, in particular flattenings (18) or sheet-like elevations (19)].

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Claim 11 (amended). Static mixer module according to [one of Claims 1 to 10, characterized in that] claim 1, wherein the ^{module} ~~mixer~~ consists of alloyed steel, non-ferrous metal, plastic, glass, ceramic or a catalytically acting alloy.

Claim 12 (amended). Mixer arrangement, [consisting of] comprising at least two static mixer elements arranged one behind the other, [characterized in that] wherein at least one mixer element is a disc-shaped static mixer module according to [one of Claims 1 to 11] claim 1.

Sub (3)
Claim 13 (amended). Mixer arrangement according to Claim 12, [characterized in that] wherein, in the mixer arrangement, at least two disc-shaped static mixer modules according to [one of claims 1 to 11] claim 1 are arranged directly one behind the other.

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Claim 14 (amended). Mixer arrangement according to Claim 11, [characterized in that] wherein the disc-shaped static mixer modules are positioned in such a way that the mixing channels of the first mixer module are arranged so as to be offset or rotated relative to the inlet channels of the second mixer module.

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Claim 15 (amended). Mixer arrangement according to Claim 14, [characterized in that] wherein the adjacent disc-shaped static mixer modules have parallel sets of straight inlet channels and mixing channels and the mutually facing mixing channels and inlet channels of the adjacent mixer modules are rotated relative to one another at an angle γ of 5 degrees to 175 degrees.

Claim 16, please cancel.

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Claim 17 (amended). Mixer arrangement according to Claim [16] 22, arrangement [characterized in that] wherein the ~~unit consisting~~ of the disc-shaped static mixer module and of the engaging static mixer is designed in such a way that the engaging static mixer terminates flush with the plane of the front side or the plane of the rear side of the segments or regions, the said plane having a maximum spacing from the planes of the front side or the rear side respectively.

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Claim 18 (amended). Mixer with at least two static mixer modules according to [one of Claims 1 to 11 or with a mixer arrangement according to one of Claims 12 to 17] claim 1, in which the mixer modules ~~or the mixer arrangement~~ are installed in a pipe, through which mix flows, in such a way that the front side of an individual mixer module ~~or~~ ~~of a mixer module~~ [or of a mixer module from the mixer arrangement] points in the opposite direction to the direction of flow of the mix.

Please add the following new claims:

A³ -- Claim 19. The static mixer module of claim 3, wherein said spacer contours are bosses, teeth or warts.

Sub F10 Claim 20. The static mixer module of claim 10, wherein said baffle surfaces are flattenings (18) or sheet-like elevations (19).

Sub D3 Claim 21. Mixer with a mixer arrangement according to claim 12, in which the mixer arrangement is installed in a pipe, through which mix flows, in such a way that the front side of an individual mixer module from the mixer arrangement points in the opposite direction to the direction of flow of the mix.

Sub B2 Claim 22. Mixer arrangement according to claim 11, wherein the mixer arrangement has at least one module which is divided into two or more regions or segments which have different spacings between the orifices or a different cross-sectional surface of the orifices, said static mixer being followed directly by a static mixer element which is a conventional static mixer or a disc-shaped static mixer module, the outer or inner contour of which is adapted to the boundaries of the regions or segments and which engages into the regions or segments of the disc-shaped static mixer module which have a smaller spacing between the disc plane of the front side and the disc plane of the rear side than the remaining regions or segments. --